Setup Guide — CVEQ/SVEQ 100 Series

This guide provides basic instructions for an experienced installer to set up and operate the Extron® CVEQ 100 Series and the SVEQ 100 Series of line drivers.

IMPORTANT: Refer to www.extron.com for the user manual and installation instructions before connecting the product to the power supply.

CAUTION *Installation and service must be performed by authorized personnel only.*

Installation

Step 1 — Turn off the line driver and input/output devices

Turn the input and output devices off and unplug their power cords. Verify that the line driver is disconnected from the power source before proceeding.

Step 2 — Attach output cables

For the CVEQ 100 Series, connect a composite video output device to the female BNC connector.

For the SVEQ 100 Series, connect a S-video output device to the female BNC connectors.

For audio output, wire a balanced/unbalanced audio output device to the 3.5 mm, 5-pole, direct insertion captive screw connector.

Step 3 — Attach input cables

For the CVEQ 100 Series, connect a composite video input source to the connector (RCA or BNC, depending on model).

For the SVEQ 100 Series, connect an S-video input source to the connector (4-pin mini DIN or BNCs, depending on model).

For audio input, connect an unbalanced stereo audio source to the left and right RCA connectors.

Step 4 — Power on the line driver

Wire the power connector (see figure 1). When power is applied to the unit, the front panel LED lights.

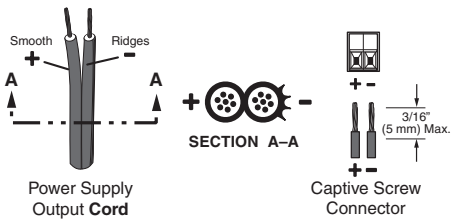

Figure 1 – Power connector wiring

CAUTION *Always use a power supply supplied and or specified by Extron. Use of an unauthorized power supply voids all regulatory compliance certification and may cause damage to the supply and the end product. Unless otherwise stated, the AC/DC adapters are not suitable for use in air handling spaces or in wall cavities. The installation must always be in accordance with the applicable provisions of National Electrical Code ANSI/NFPA 70, article 75 and the Canadian Electrical Code part 1, section 16. The power supply shall not be permanently fixed to building structure or similar structure.*

Step 5 — Power on devices and check for picture and sound

Connect the power cords and turn on the output devices and input devices.

The picture should appear and sound should be audible. If not, ensure that all devices are plugged in and receiving power. Check the cabling and make adjustments as needed.

Step 6 — Adjust video gain and equalization

While watching the display, adjust the video gain and equalization by using the rotary gain and equalization (EQ) control potentiometers (see figure 2). Make all adjustments using a small screwdriver. For a more precise setting, use an oscilloscope or a waveform monitor connected to the far end of the output cable.

CVEQ 100 Series SVEQ 100 Series

Figure 2 – Equalization and gain controls

If using very short output cables:

- Set all potentiometers to the default setting (the arrow on the control pointing to the dot beside it, as shown in figure 2).

If using longer output cables:

- Supply the color bars test signal to the input (Recommendation: use an Extron VTG 300 Video Test Generator to generate the test signal).
- Adjust the gain control(s) for the output until the signal level at the far end is the same as the input (or the display shows the correct brightness and contrast).
- Adjust the EQ control for the output so that no overshoot or round front corner appears at the far end on the oscilloscope or you see a sharp picture with no smearing.

Step 7 — Mount the line driver

Make any cabling adjustments before mounting the line driver, as the cables may be inaccessible afterwards. If necessary, mount the line driver. For mounting information, see "Installation Instructions" in the *CVEQ/SVEQ 100 Series User's Manual.*

Troubleshooting

If the image does not appear or there is no sound

- Make sure that all of the devices are powered on.
- Ensure that the connectors are wired correctly at both ends of the cables. Audio cables must be wired for an unbalanced stereo input signal and for the appropriate (unbalanced or balanced) output signal.
- Check the manuals of the output and input devices or contact Extron to determine if there are special requirements to output video to the external video port.

If the image is not displayed properly

- If the picture is too bright or too dark, if the edges of the image seem to exceed their boundaries, or if thin lines and sharp edges look thick and fuzzy, adjust the gain setting.
- If the picture appears and is stable, but it has ghosting or blooming, verify that the video input is properly terminated. If the problem is not resolved by changing the termination, try using a different input cable. Poor quality or damaged cable can cause ghosting and blooming.

If problems persist, contact the Extron S3 Sales and Technical Support Hotline.

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